

YOUR WIRING CHECK LIST

THIS WIRING GUIDE WILL HELP YOU . . .

YOU can use this wiring check list to make a common-sense survey of the need for adequate wiring on your farm. Don't forget that your wiring must be designed to last for a long time; that as you buy and use more electrical equipment you will need plenty of circuits and outlets to provide efficient service. Adequate wiring at the outset will save you expense and trouble later.

Wiring your farm and home is a three-step job.

✓ **MAKING THE WIRING PLAN.** The check list on the inside of this folder lists the locations that ordinarily need wiring. Take the list and a pencil and go from room to room marking down the number and location of outlets and switches you will need. The recommended column is based on the past experience of many farmers. It shows the minimum number of outlets and switches usually needed in each location.

Your list may differ from this check list. For example, your living room may be considerably larger than the average, in which case you may require additional convenience outlets for supplemental lighting.

In the future you may need special heavy-duty outlets for large appliances such as the electric range, water heater, and utility motors. It is cheaper to have such wiring done now. Your co-operative adviser is able to make proper recommendations for the special outlets.

✓ **HAVE A REPUTABLE WIRING CONTRACTOR DO THE WORK.** When your plan is completed, take it to a good contractor who has a reputation for good work. He will make the wiring fit your requirements. Insist upon durable materials. Have the installation done in accordance with the "National Electrical Code" and local regulations. Upon completion of the job, demand a written guarantee from the contractor against faulty workmanship or materials.

✓ **HAVE THE WIRING INSPECTED.** After you have a signed inspection certificate from an accredited electrical inspector, you are assured of a good wiring job. In each of these steps, your co-op manager can help you.

FOR THESE PLACES

YOU'LL NEED THESE LIGHT FIXTURES

CONTROLLED BY THESE SWITCHES

AND DON'T FORGET: PLENTY OF OUTLETS

HOW MANY LIGHTS? -SWITCHES? -DOUBLE OUTLETS?

CEILING SIDEWALL

IN THE HOME

				Recom'd	Specified	Recom'd	Specified	Recom'd	Specified	Recom'd	Specified
Front or side porch.	One ceiling or side light on each side of door.	Located inside door.	One weatherproof outlet for decorative lighting or appliances used on the porch.	1		or 2		1			
Back porch.	One ceiling or side light on each side of door.	3-way switches inside door and at barn.	Weatherproof outlet if porch is large enough for sitting or working.	1		or 2		*1			
Lower hall.	One ceiling light to illuminate stairs.	3-way switches inside door and in upper hall.	Outlet for table lamp and vacuum cleaner.	1				*2		1	
Upper hall.	One ceiling light at head of stairs.	3-way switches at head of stairs and in lower hall.	Outlet for vacuum cleaner.	1				*2		1	
Living room.	One ceiling light.	3-way switches at front door and at door to dining room or kitchen.	One outlet for each wall space but not more than 12 feet apart.	1				*2		4	
Dining room.	One center fixture.	3-way switches at doors to living room and kitchen.	Outlets for table appliances and vacuum cleaner.	1				*2		2	
Kitchen.	One center fixture and side-wall bracket over sink and range. Light on either side of mirror if men shave in the kitchen.	3-way switches at doors to porch and dining room.	Heavy-duty outlets for range and water heater. Outlet for refrigerator, outlets for small appliances.	1		2		*2		3	
Pantry.	One ceiling light.	Switch at door.	Outlet for mixer if used here.	1				1			
Bathroom.	One ceiling light and/or light on each side of mirror.	Switch at door (important).	Outlet for electric razor or space heater.	1		2		1			
Bedrooms.	One ceiling light in each bedroom.	Switch at door in each room.	Outlets for dresser lamps, bed lamps and appliances for each room.	1				1		2	
Closets.	One light located over door in each closet.	Pull chain in every light.									
Attic.	One ceiling light to illuminate stairs and one for each separate unfinished space.	3-way switches at top and bottom of stairs.	Outlet suspended from ceiling. Fan outlets.	1				*2			
Basement or workroom.	One ceiling light for each 200-square feet or each separate room. One light to be located to illuminate stairway. Light over tubs in laundry.	3-way switches at top and bottom of stairs.	Outlet where needed for iron, washer and ironer; one may be suspended from ceiling if necessary. 220-v heavy-duty outlet for water heater.	1				*2		2	

ON THE FARM

Garage.	One light over hood of each car.	At door.	Outlet between each two stalls—in front.	1				1		1 or more	
Yard light.	Outdoor type, 200-watt, on pole or building, at least 22 feet above ground.	3-way switches at house and barn.		1				*2			
Poultry house.	Ceiling light for 60-watt lamps, not over 12 feet apart.	Time control located at entrance.	Convenience outlets on separate circuit from lights, for brooders and water warmers.								
Cow stable: Front cows. Back cows. Box stalls.	Nonmetallic lamp holder, every 20 feet. Same as above but spaced every 12 feet. One light for each 2 stalls.	At entrance.	Outlet every 15 or 20 feet for milker, clipper, sprayer, etc.								
Milk house.	Ceiling light, 100-watt in nonmetallic lamp holder.		Milk cooler, water heater, and other devices wired in with safety switch.					1			
Silo.	One light in silo and one in top of silo well.		Power outlet for ensilage cutter.					1			
Granary and/or feed room.	Ceiling light (dustproof where necessary).		Power outlet for feed grinder.					1			
Hay loft No. 1. No. 2.	Enclosed 100-watt hay-mow fixture in each bay. Enclosed 100-watt hay-mow fixture in each bay.							1			
Barn floor.	One light with reflector.		Power outlets for hay hoist and other heavy equipment. Outlets for trouble lamps.					1			
Shop.	One or two lights over bench.		Outlets for any power-driven equipment.								
Pump house.	One light over pump.		Pump wired in. Outlets for trouble lamps.					1			

*Three-way switches to control light from two points.

TEN THINGS TO REMEMBER IN WIRING

Your Home

1. Save steps. Wire lights for all passageways, such as basement steps, stairways and back kitchen doors so that they can be turned off at either end.
2. Try to eliminate dangerous shadows on entrance steps and stairways.
3. Plan sufficient local lighting for close-seeing tasks, such as sewing and reading.
4. Locate kitchen and dining room outlets about 40 inches from the floor.
5. Have a competent electrical inspector check all wiring thoroughly.

Your Farm

1. Plan your wiring system carefully so that it can absorb future loads.
2. Yard lights are practically a necessity; get a good one.
3. Farm wiring should conform to all safety requirements.
4. Use the check list above to avoid neglecting necessary farm-wiring details.
5. All wiring should be thoroughly checked by a competent electrical inspector.

NEED MONEY FOR WIRING AND APPLIANCES?

IT is possible for your co-op to lend money to you on convenient terms and at a low, REA-approved rate of interest, to finance your home and farm wiring and the purchase of electrical and plumbing equipment. REA makes special loans to its borrowers for this purpose.

Loans can be used to finance any of the following: (1) farm and household wiring, including lighting fixtures; (2) complete plumbing installations, including electric pump, pressure tank, septic tank, piping, sink, water closet, lavatory, and bathtub or shower stall; (3) specified types of farm and home electrical equipment.

Here's what the plan means to you: You can get a loan of from \$10 to \$500 with interest at 4 percent per year on the current unpaid balance. Your down payment on the purchases will be 20 percent of the retail installed price of the wiring or equipment. Repayments on such loans may be made monthly, quarterly, semiannually or annually, whichever is more convenient to you. The maximum repayment time is 5 years.

These terms and conditions are subject to regulations of the Federal Reserve Board. Ask your co-op manager to assist you in applying for a wiring, equipment or plumbing loan.

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